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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants : Yoshio HARADA et al.  
Appl. No. : 10/795,998 Group Art Unit : 1773  
Filed : March 10, 2004 Examiner : Not Yet Assigned  
Confirmation No. : 2654  
For : COATING MATERIAL FOR THERMAL BARRIER COATING  
HAVING EXCELLENT CORROSION RESISTANCE AND HEAT  
RESISTANCE AND METHOD OF PRODUCING THE SAME

**INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir :

In accordance with the duty of disclosure under 37 C.F.R. §1.56 and §§1.97-1.98,  
Applicants hereby call to the Examiner's attention the following documents:

NASA Technical Memorandum, NASA-TM-X3425, September 1976.

Applicants note that this document is mentioned on page 2 of the specification of the  
present application;

U.S. Patent No. 5,082,741 to TAIRA et al., which issued on January 21, 1992;

U.S. Patent No. 6,132,890 to HARADA et al., which issued on October 17, 2000;

U.S. Patent No. 6,180,259 to HARADA et al., which issued on January 30, 2001;

U.S. Patent No. 6,082,444 to HARADA et al., which issued on July 4, 2000;

“Spraying Technique Handbook,” May 30, 1998, pg. 505, together with an  
English language translation of the same. Applicants note that this document is  
mentioned on page 5 of the specification of the present application;

Japanese Laid-Open Patent Publication No. SHO 59-118847, which was published on July 9, 1984, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 2 of the specification of the present application;

Japanese Laid-Open Patent Publication No. SHO 60-141842, which was published on July 26, 1985, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 2 of the specification of the present application;

Japanese Laid-Open Patent Publication No. SHO 64-087050, which was published on March 31, 1989, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 3 of the specification of the present application;

Japanese Laid-Open Patent Publication No. HEI 4-260622, which was published on September 16, 1992, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 3 of the specification of the present application;

Japanese Laid-Open Patent Publication No. SHO 62-211387, which was published on September 17, 1987, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 3 of the specification of the present application;

Japanese Laid-Open Patent Publication No. HEI 4-36454, which was published on February 6, 1992, together with an English language Abstract of the same. Applicants

note that this document is mentioned on page 3 of the specification of the present application;

Japanese Laid-Open Patent Publication No. HEI 3-87379, which was published on April 12, 1991, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 3 of the specification of the present application;

Japanese Laid-Open Patent Publication No. 2000-301655, which was published on October 31, 2000, together with an English language Abstract of the same. Applicants note that this document is mentioned on pages 25 and 26 of the specification of the present application; and

Japanese Laid-Open Patent Publication No. SHO 58-16094, which was published on January 29, 1983, together with an English language Abstract of the same. Applicants note that this document is mentioned on page 3 of the specification of the present application.

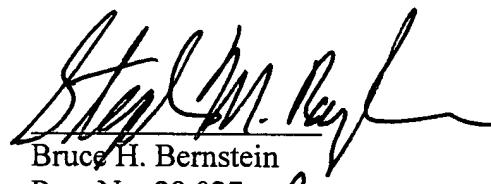
Further to the U.S. Patent and Trademark Office's decision to waive the requirement under 37 C.F.R. §1.98 (a)(2)(i), copies of the U.S. patents are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

Applicants respectfully request that the Examiner consider the above material and cite the same. Copies of the above-noted foreign documents are attached and all of the documents have been listed on the attached PTO-1449 Form. The Examiner is requested to initial the appropriate spaces on the attached Form and to return a copy of the Form to the Applicants with the next official communication in the present application.

Applicants note that an Office Action on the merits has not issued in the present application, and thus no fee is believed necessary to ensure consideration of the submitted material. However, if an Office Action on the merits has issued and is crossing this statement in the mail, the undersigned hereby authorizes the Commissioner to charge any fee necessary for the consideration of this statement, including any payment under 37 C.F.R. §1.17 (p) to Deposit Account No. 19-0089.

Should the Examiner have any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully Submitted,  
Yoshio HARADA et al.

  
Bruce H. Bernstein  
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21, 2004*

June 16, 2004  
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JUN 17 2004 Japanese Patent Laid-Open No. S60-141842

Laid-Open : July 26, 1985  
Filed : August 24, 1984

Application Number: S59-175262

Priority claimed : US 565803 filed on December 27, 1983

Title : A nickel-base superalloy  
Applicant : General Electric Company

A composition used for a nickel-base superalloy substance, substantially consisting of, by weight, 1-10% of cobalt, 6-12% of chrome, 5-8% of aluminum, 1-10% of tantalum, 1-10% of tungsten, 0-3% of rhenium, 0-2% of molybdenum, 0.1-2% of hafnium, 0.005-0.1% of boron, 0.005-0.25% of carbon, 0.01-1.0% of yttrium, and the remainder being Ni and incidental impurities.

Japanese Patent Laid-Open S58-16094

Laid-Open : January 29, 1983

Filed : June 30, 1982

Application Number: S57-114757

Priority claimed : US 278938 filed on June 30, 1981

Title : A method of covering a distortion permissive ceramic heat barrier coating on a metal substrate

Applicant : United Technologies Corporation

A method of covering a distortion permissive ceramic heat barrier coating on a metal substrate comprising:

a. a step of applying a dense adherent ceramic coating on a surface of the substrate;

b. a step of heating the surface of the ceramic coating on condition that the surface of the ceramic is melt without evaporating the ceramic to a great degree and melting the metal substrate;

c. a step of coagulating the melted ceramic, characterized in that a network of cracks is formed at the portion of the melted ceramic coating at the coagulation of the melted ceramic and that the cracks are substantially formed vertically to the surface of the ceramic coating.

FORM PTO-1449

U.S. Department of Commerce  
Patent and Trademark OfficeAtty. Docket No.  
P24845Application No.  
10/795

INFORMATION DISCLOSURE STATEMENT  
BY APPLICANT  
(Use several sheets if necessary)

*JUN 17 2004*

Applicant  
Yoshio HARADA et alFiling Date  
March 10, 2004Group  
1773

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5	0	8	2	7	4	1	01/21/92	TAIRA et al			
	6	1	3	2	8	9	0	10/17/00	HARADA et al			
	6	1	8	0	2	5	9	01/30/01	HARADA et al			
	6	0	8	2	4	4	4	07/04/00	HARADA et al			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
5	9	-	1	1	8	8	4	7	07/09/84	JAPAN			
6	0	-	1	4	1	8	4	2	07/26/85	JAPAN			
6	4	-	0	8	7	0	5	0	03/31/89	JAPAN			
	4	-	2	6	0	6	2	2	09/16/92	JAPAN			
6	2	-	2	1	1	3	8	7	09/17/87	JAPAN			
	4	-	3	6	4	5	4	02/06/92	JAPAN				
	3	-	8	7	3	7	9	04/12/91	JAPAN				
200	0	-	3	0	1	6	5	5	10/31/00	JAPAN			
	5	8	-	1	6	0	9	4	01/29/83	JAPAN			

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	1	NASA Technical Memorandum, NASA-TM-X3425, September 1976.
	2	English translation of "Spraying Technique Handbook," May 30, 1998, pg. 505. 1
	3	English Language Abstract of JP 59-118847.
	4	English Language Abstract of JP of JP 64-087050.
	5	English Language Abstract of JP 4-260622.
	6	English Language Abstract of JP62-211387.
	7	English Language Abstract of JP 4-36454.
	8	English Language Abstract of JP 3-87379.
	9	English Language Abstract of JP 2000-301655.

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.